

## STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

ATTORNEYS AT LAW

IIOO NEW YORK AVENUE, N.W., SUITE 600 WASHINGTON, D.C. 20005-3934

www.skgf.com

PHONE: (202) 371-2600 FACSIMILE: (202) 371-2540

EGGERT GREENE STERNE
DWARD J. KESSLER

GREENE A. GOLDSTEIN

AMUEL L. FOX

DAVID K.S. CORNWELL

GREENE W. ESMOND

FROY-GENE G. DURKIN

MICHELE A. CIMBALA

MICHELE A. CIMBALI MICHAEL B. RAY ROBERT E. SOKOHL ERIC K. STEFFE MICHAEL Q. LEE STEVEN R. LUDWIG
JOHN M. COVERT\*
LINDA E. ALCORN
RAZ E. FLESHNER
ROBERT C. MILLONIG
MICHAEL V. MESSINGER
JUDITH U. KIM
TIMOTHY J. SHEA, JR.
DONALD R. MCPHAIL
PATRICK E. GARRETT
STEPHEN G. WHITESIDE
JEFFREY T. HELVEY\*

HEIDI L. KRAUS
JEFFREY R. KURIN
RAYMOND MILLIEN
PATRICK D. O'BRIEN
LAWRENCE B. BUGAISKY
CRYSTAL D. SAYLES\*
EOWARD W. YEE
ALBERT L. FERRO\*
DONALD R. BANOWIT
PETER A. JACKMAN
MOLLY A. MCCALL
TERESA U. MEDLER

JEFFREY S. WEAVER
KRISTIN K. VIDOVICH
KENDRICK P. PATTERSON
DONALD J. FEATHERSTONE
GRANT E. REED
VINCENT L. CAPUANO
JOHN A. HARROUN\*
MATTHEW M. CATLETT\*
NATHAN K. KELLEY\*
ALBERT J. FASULO II \*
W. BRIAN EDGE\*

KAREN R. MARKOWICZ\*\*
SUZANNE E. ZISKA\*\*
BRIAN J. DEL BUONO\*\*
ANDREA J. KAMAGE\*\*
NANCY J. LEITH\*\*
TARJA H. NAUKKARINEN\*\*

\*BAR OTHER THAN D.C.

\*\*REGISTERED PATENT AGENTS

June 22, 2000

WRITER'S DIRECT NUMBER:

INTERNET ADDRESS: sziska@skgf.com

Commissioner for Patents Washington, D.C. 20231

**Box Patent Application** 

Re:

U.S. Non-Provisional Patent Application under 37 C.F.R. § 1.53(b)

Appl. No. to be assigned; Filed: June 22, 2000

Appl. 100. to be assigned, 1 fied. Julie 22, 2000

For: Improved Primers and Methods for the Detection and Discrimination

of Nucleic Acids

Inventors:

NAZARENKO et al.

Our Ref:

0942.4980002/RWE/SEZ

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. USPTO Utility Patent Application Transmittal Form (PTO/SB/05);
- 2. U.S. Utility Patent Application entitled:

Improved Primers and Methods for the Detection and Discrimination of Nucleic Acids

That the tend and well that the the tend will be the tend of the tend of the tend that the tend of the tend of

Commissioner for Patents June 22, 2000 Page 2

and naming as inventors:

Irina NAZARENKO Ayoub RASHTCHIAN

the application consisting of:

- a. A specification containing:
  - i. <u>84</u> pages of description prior to the claims;
  - ii. 11 pages of claims (55 claims);
  - iii. a one (1) page abstract;
- b. <u>19</u> sheets of drawings: (Figures <u>1-4</u>, <u>5a-5c</u>, <u>6-17</u>);
- c. <u>11</u> pages of a paper copy of the sequence listing;
- d. A computer readable copy of the sequence listing. In accordance with 37 C.F.R. § 1.821(f), the paper copy of the sequence listing and the computer readable copy of the sequence listing submitted herewith in the above application are the same;
- 3. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3) (in duplicate); and
- 4. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

Commissioner for Patents November 3, 2000 Page 2

- 7. Return postcard; and
- 8. Our Check No. <u>29339</u> for \$ 2544.00 to cover: \$710.00 Filing Fee for Patent Application (37 C.F.R. § 1.16) \$ 1594.00 Fee for excess claims (37 C.F.R. § 1.16) \$ 130.00 Surcharge for late filing of Declaration (37 C.F.R. § 1.16)

\$110.00 For extension of time fees under 37 C.F.R. § 1.136.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. If extensions of time under 37 C.F.R. § 1.136 other than those otherwise provided for herewith are required to prevent abandonment of the present patent application, then such extensions of time are hereby petitioned, and any fees therefor are hereby authorized to be charged to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Suzanne E. Ziska

Agent for Applicants

Registration No. 43,371

Sugarne E. Julia

SEZ:vcf

P:\USERS\SZISKA\0942.0000000\0942.4980002\ntfmp transmittal SKGF Rev. 4/27/00

Commissioner for Patents June 22, 2000 Page 3

This patent application is being submitted under 37 C.F.R. § 1.53(b) without Declaration and without filing fee.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Suzanne E. Ziska

Agent for Applicants

Registration No. 43,371

Please type a sign(+) inside this box  Under the Paperwork Reduction Act of 1992. Dersons are required to respond to a compared to the paperwork Reduction Act of 1992.	PTO/SB/05 (2/98  Patent and Patent and Proved for use through 09/30/2000. OMB 0651-003:  Patent and					
Under the Paperwork Reduction Act of 1999 Dersons are required to respond to a co	Attorney Docket No. 1942.4980002/RWE/SEZ					
UTILITY PATENT APPLICATION TRANSMITTAL	First Inventor or NAZARENKO et al. Application Identifier					
(Only for new nonprovisional applications under 37 CFR § 1.53(b))	Title Improved Primers and Methods for the Detection and Discrimination of Nucleic Acids					
	Express Mail Label No.					
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	Assistant Commissioner for Patents  ADDRESS TO: Box Patent Application Washington, DC 20231					
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing)	6. Microfiche Computer Program (Appendix)					
2. Specification [Total Pages 96]  (preferred arrangement set forth below)	7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)					
- Descriptive title of the Invention - Cross References to Related Applications - Statement Regarding Fed sponsored R & D	a. 🛛 Computer Readable Copy					
Reference to Microfiche Appendix Background of the Invention Brief Summary of the Invention Brief Description of the Drawings (if filed)	b. 🛛 Paper Copy (identical to computer copy)					
- Detailed Description - Claim(s) - Abstract of the Disclosure	c. Statement verifying identity of above copies					
3. Drawing(s) (35 U.S.C. 113) [Total Sheets 19]	ACCOMPANYING APPLICATION PARTS					
4. Oath or Declaration [Total Pages]	8. Assignment Papers (cover sheet & document(s))					
a. Newly executed (original or copy)	9. 37 CFR 3.73(b) Statement Power of Attorney (when there is an assignee)					
b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed)	10. English Translation Document (if applicable)					
[Note Box 5 below] i. DELETION OF INVENTOR(S)	11. Information Disclosure Copies of IDS Citations Statement (IDS)/PTO-1449					
Signed statement attached deleting inventor(s)	12. Preliminary Amendment					
named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).	13. (2) Return Receipt Postcard (MPEP 503) (Should be specifically itemized)					
5. Incorporation By Reference (useable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the eath or declaration is supplied under Box 4b, is considered as being part of	14.  *Small Entity Statement(s)  (PTO/SB/09-12)  *Statement filed in prior application, Status still proper and desired					
the disclosure of the accompanying application and is hereby incorporated by reference therein.	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)					
	16.  Other: 37 C.F.R. § 1.136(a)(3) Authorization					
	Other:					
	*NOTE FOR ITEMS 1 & 14: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).					
17. If a CONTINUING APPLICATION, check appropriate box, and sup						
☐ Continuation ☐ Divisional ☐ Continuation-in-	Part (CIP) of prior application No:/					
Prior application information: Examiner Group/Art Unit:						
18. CORRESPONI	18. CORRESPONDENCE ADDRESS					
Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) or Correspondence address below						

☐ Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) address below						
NAME	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.					
0	Attorneys at Law					
ADDRESS	Suite 600, 1100 New York Avenue, N.W.					
CITY	Washington	STATE	DC	ZIP CODE	20005-3934	
COUNTRY	USA	TELEPHONE	(202) 371-2600	FAX	(202) 371-2540	

NAME (Print/Type)	Suzanne E. Ziska	Registration No. (Attorney/Agent)	43,371
SIGNATURE	Sugne E. Tule	Date	June 22, 2000

PTO/SB/17 (09-00)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2001

Complete if Known			
Application Number	09/599,594		
Filing Date	June 22, 2000		
First Named Inventor	Irina Nazarenko		
Examiner Name	To Be Assigned		
Group Art Unit	To Be Assigned		
Attorney Docket No.	0942.4980002/ RWE/SEZ		

Date Novem

-3,2000

(\$) 2544.00 TOTAL AMOUNT OF PAYMENT

Signature

METHOD OF PAYMENT (check one)				FEE	CALCULATION (	continued)	
The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:	3. ADDIT Large	IONAL Entity		Entity			*
Deposit Account Number 19-0036	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee D	escription	Fee paid
Deposit Account Name Sterne, Kessler, Goldstein & Fox P.L.L.C.	105	130	205	65	Surcharge - late filing f	ee or oath	130.00
m	127	50	227	25	Surcharge - late provisional	I filing fee or cover shee	t
Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17	139	130	139	130	Non-English specifi	cation	
Applicant claims small entity status See 37 CFR 1.27	147	2,520	147	2,520	For filing a request fo	т <i>ex par</i> te reexamin	nation
See 37 CFR 1.27	112	920*	112	920*	Requesting publication of action	er	
2. 🗵 Payment Enclosed:	113	1,840*	113	1,840*	Requesting publication of	f SIR after Examiner a	action
Check Credit card Money Order Other*  *Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.	115	110	215	55	Extension for reply wi	thin first month	110.00
FEE CALCULATION	116	390	216	195	Extension for reply wi	thin second month	
1. BASIC FILING FEE	117	890	217	445	Extension for reply wi	thin third month	
Large Entity Small Entity	118	1,390	218	695	Extension for reply wi	ithin fourth month	
Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	128	1,890	228	945	Extension for reply wi	thin fifth month	
101 710 201 355 Utility filing fee 710.00	119	310	219	155	Notice of Appeal		
106 320 206 160 Design filing fee	120	310	220	155	Filing a brief in suppo		
107 490 207 245 Plant filing fee	121	270	221	135	Request for oral hear		
108 710 208 355 Reissue filing fee	138	1,510	138	1,510	Petition to institute a	ng	
114 150 214 75 Provisional filing fee	140	110	240	55			
	141	1,240	241	620	Petition to revive - unintentional		
SUBTOTAL (1) (\$) 710.00	142	1,240	242	620	0 Utility issue fee (or reissue)		
	143	440	243	220	Design issue fee		
	144	600	244	300	Plant issue fee		
	122	130	122	130	Petitions to the Comn	nissioner	
2. EXTRA CLAIM FEES Fee from Extra below Fee Paid	123	50	123	50	Petitions related to pr	ovisional applicatio	ns
Total Claims 58 20** = 38_X 18.00 = 684.00	126	240	126	240	Submission of Inform	ation Disclosure St	mt
Indep. Claims 11 - 3** = 8 X 80.00 = 640.00	581	40	481	40	Recording each pater property (times numb		
Multiple Dependent <u>270</u> = <u>270.00</u>	146	710	246	355	Filing a submission at (37 CFR 1.129(a))	fter final rejection	
Large Entity Small Entity Fee Fee Fee Fee Fee Description	149	710	249	355	For each additional in (37 CFR 1.129(b))	vention to be exam	ined
Code         (\$)           103         18         203         9         Claims in excess of 20	179	710	279	355	Request for Continue	d Examination (RC	E)
102 80 202 40 Independent claims in excess of 3	169	900	169	900	Request for expedited	d examination of a	desian
104 270 204 135 Multiple dependent claim					application		
108 80 209 40 **Reissue independent claims over original patent	Other fee (s	pecify) :					
110 18 210 9 **Reissue claims in excess of 20 and over original patent	Other fee (s	pecify) :					
SUBTOTAL (2) (\$) 1594.00 *Reduced by Basic Filling Fee Paid					,		
** or number previously paid, if greater; For Reissues, see above SUBTOTAL (3) (\$) 240.00							
SUBMITTED BY Complete (if applicable)  Name (Print/Type) Surpose F 7isks Registration No. 43 374 Telephone 203 374 2600					202-371-2600		
Name (Print/Type)     Suzanne E. Ziska     Registration No. (Attorney/Agent)     43,371     Telephone     202-371-2600					202-01 1-2000		